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MINISTRY OF HEALTH-ETHIOPIA

የዜጎች ጤና ለሃገር ብልጽግና!  
HEALTHIER CITIZENS FOR PROSPEROUS NATION!

# Ethiopia Immunization Monitoring System



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HEALTH FOR EVERYONE FOR PROSPEROUS NATION!

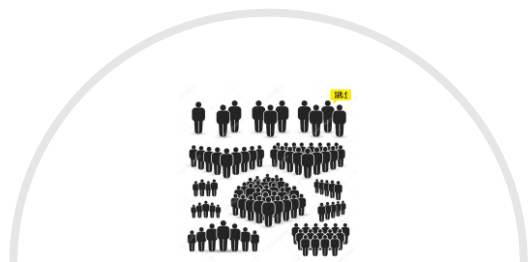
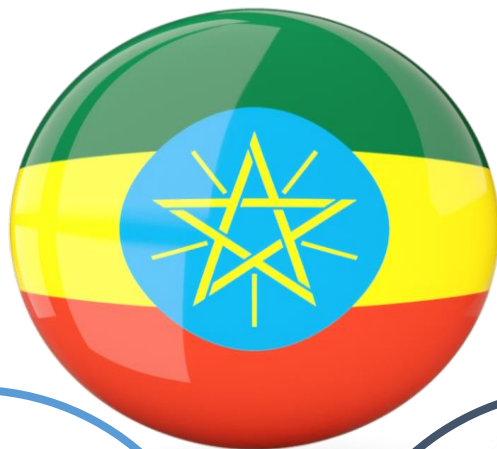
# Outline

- Back ground of EPI and health system
- Ethiopian Health information system
- HPV denominator
- Challenge
- Planning and strengthen health information



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# Ethiopia-Background



Population

**112,078,730**



Administration

**11** Regions **115** Zones

**2** City  
admins **1054**  
Weredas



Rural Community

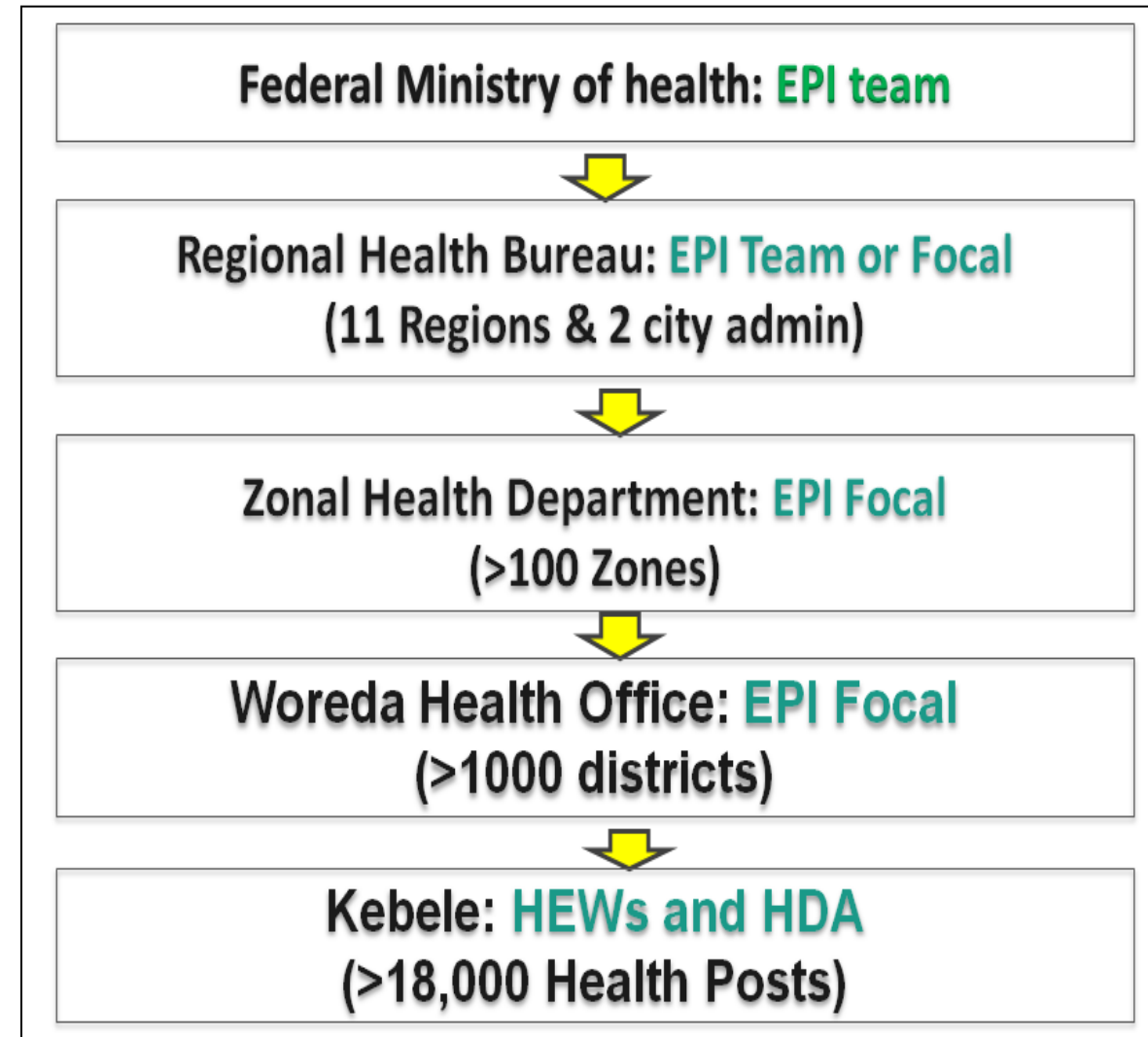
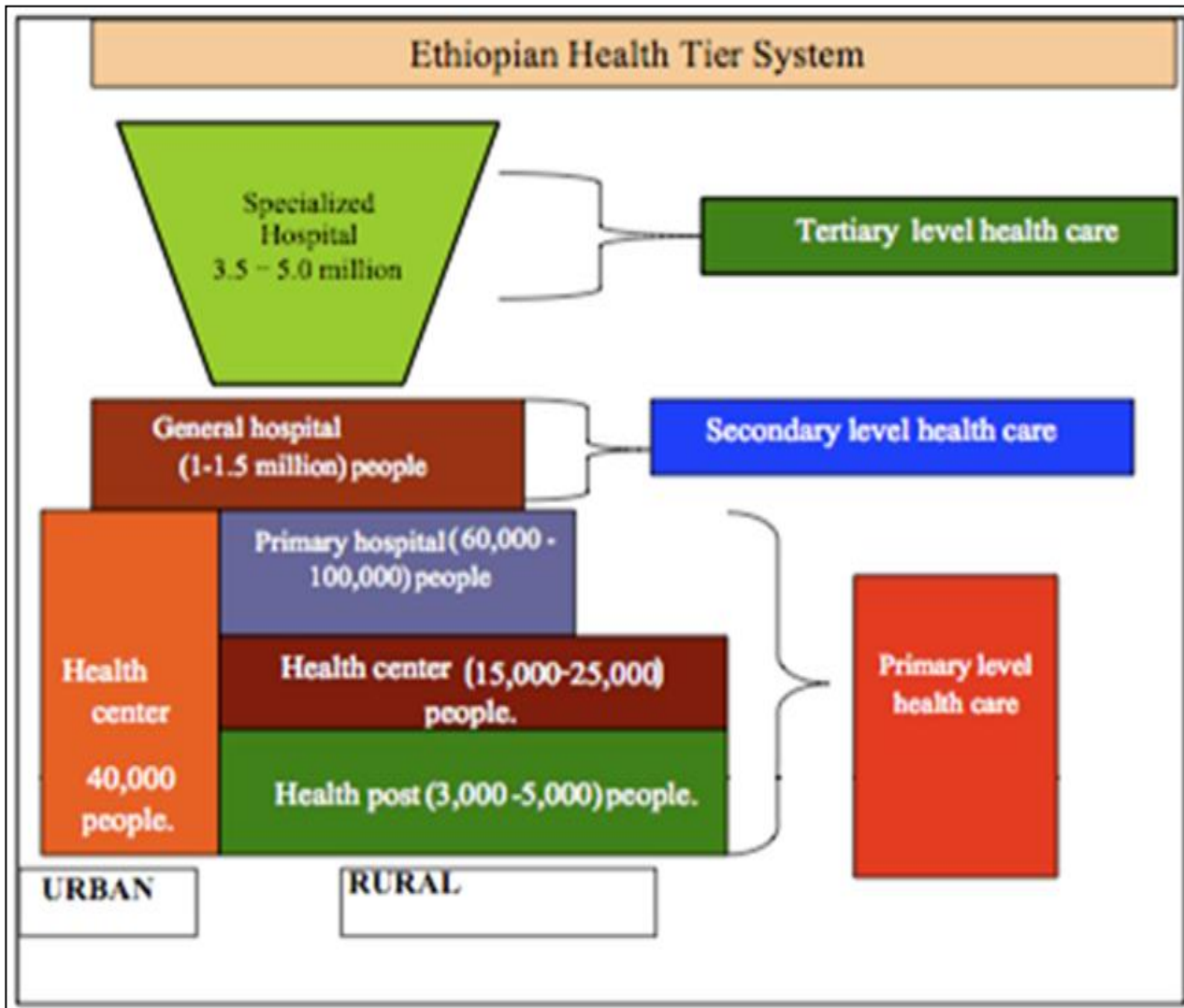
**83%**



Area

**1,100,000**  
square  
kilometres

# Health sector operating structures



# Health Infrastructures

## Hospitals

395



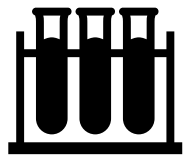
## Health Centers

3,704



## Health Posts

18,202



## National and Regional Laboratories

14



## National and Sub National EPISA Hubs

19



## HFs Providing Immunization Service

21,000



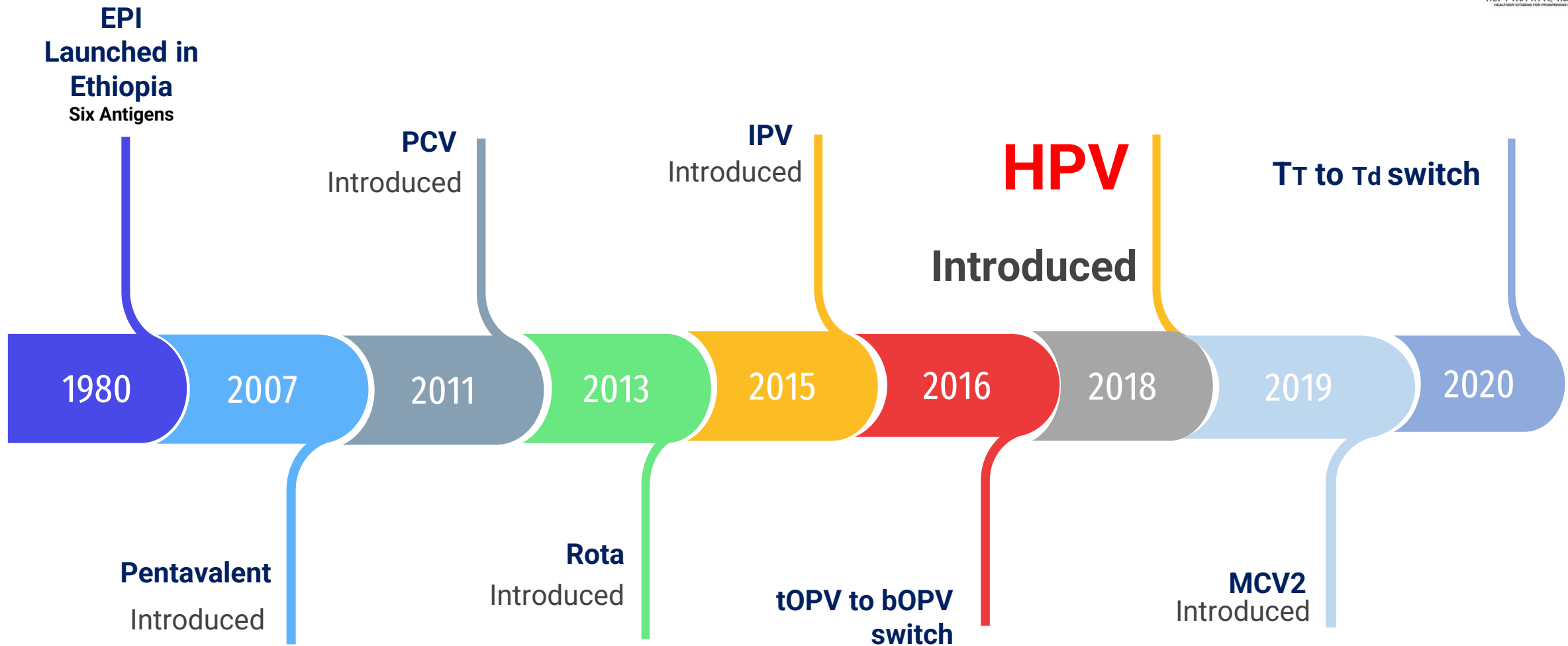
# Ethiopia EPI-Background



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HEALTH CARE FOR PROGRESSIVE NATION

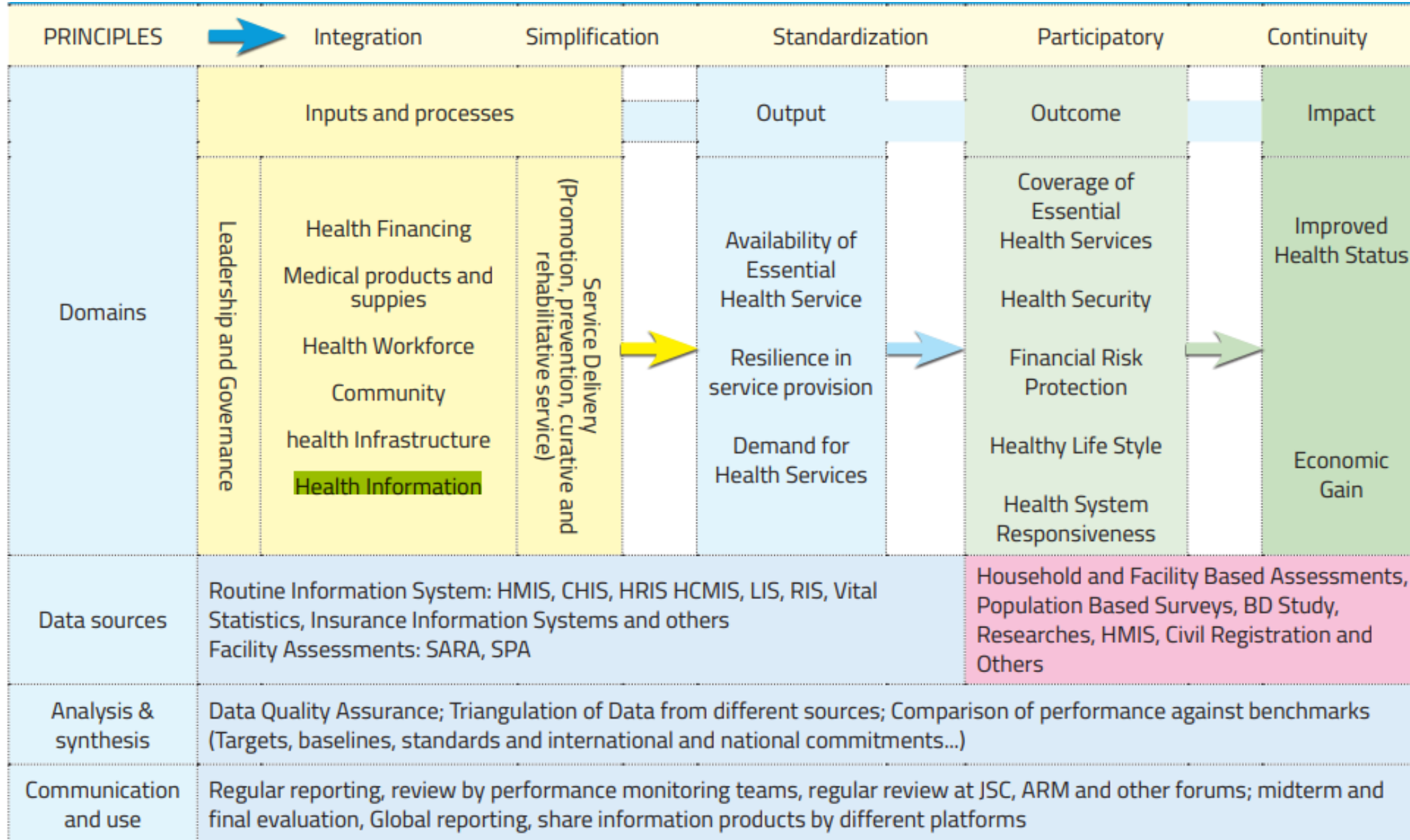


Currently **12** Antigens are being provided as part of the Routine Immunization program (RI).

# Ethiopia- Health Information System-Framework



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- Health information systems **policy documents** and guidelines developed and established
- Health information **system structures** at different levels established
- Various **platforms** put in place to strengthen key decision-making (performance monitoring teams (PMTs), review meetings, a Joint Steering Committee (JSC), and planning forums)
- **DHIS2 platform** was customized and fully scaled up with user-friendly data use features.
- **Logistics** information system, **regulatory** system, and other functions were also introduced





- An electronic Community Health Information System (***eCHIS***) application was developed and implemented in 1250 in rural health posts
- ***Master Facility Registry***, a web-based ***HRIS***, and a National Health Data Dictionary (***DD***) implemented
- A national ***database centre*** was created at EPHI to handle the Public Health Emergency Management (***PHEM***) and ***others health data*** information system
- ***Vital events and civil registration*** systems are operational, but the coverage is low

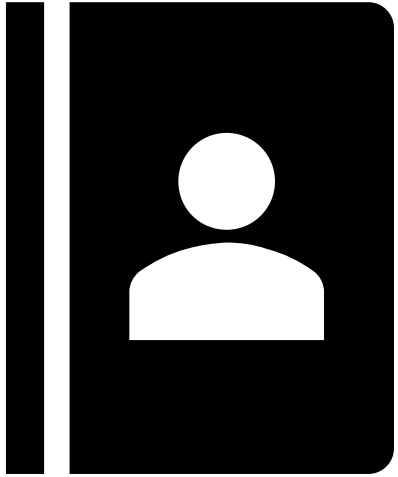


## Ethiopian HIS emphasizes on:

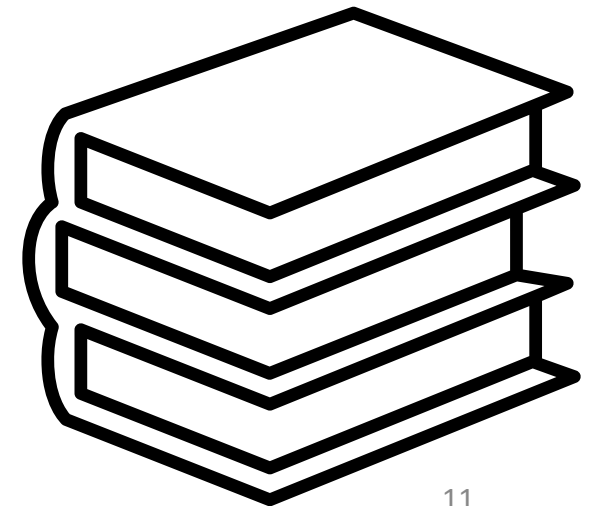
- Improving information use
- Improving data quality
- Decrease data burden
- Improving digitalization

## Goal

- **Comprehensive** and **standardized** national HMIS for evidence-based planning and management of health services
- HMIS for **decision-making at all levels** - community level, health facility, woreda, regional and federal



- Individual Medical Records
- Registers
- Tally sheets
- Reporting formats
- DHIS2



# Immunization Monitoring Tools



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**Infant Immunization Register :-** A longitudinal register used to document all the required immunization data of a child

**EPI Immunization tally:-** Collects all infant vaccination and Td vaccine to women

**Monthly Service Delivery Reporting Form:-** Used to report all services including immunization coverage by antigen

**Immunization Monitoring Chart:-** Used to visually display coverage and drop out data over time show progress towards vaccinating the target population

**DHIS2:-** For monthly data entry, analysis and visualization



## Tools

- longitudinal HPV Vaccination register
- HPV vaccination tally sheet
- HPV vaccination card
- Campaign monitoring tools
- DHIS2

# Immunization Reportable data elements



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- BCG
- OPV 1 & 3
- IPV
- Pentavalent 1 & 3
- PCV 1 & 3
- Rota 1 & 2
- Measles 1 & 2
- **HPV**
- Fully Immunized
- PAB
- Vaccine Wastage Rate

# Immunization Indicators



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- Pentavalent third dose immunization coverage (< 1 year)
- OPV 3 Immunization Coverage (< 1 year)
- PCV3 immunization coverage (< 1 year)
- Rota2 immunization coverage (< 1 year)
- IPV Immunization Coverage (< 1 year)
- MCV1 immunization coverage (< 1year)
- MCV2 immunization coverage (15-24 months)
- Full immunization coverage (< 1 year)
- Proportion of infants protected at birth against neonatal tetanus
- **HPV 2 (Human Papilloma Virus vaccine (2nd dose) Immunization coverage (14 years old girls)**
- Vaccine wastage rate



- Number of girls **14 year** of age who have received first dose of human papilloma virus vaccine
- Number of girls **14 year** of age who have received second dose of human papilloma virus vaccine in 6 months interval from the first dose
- HPV doses given /opened/damaged/expired





## Reporting formats

### By Type:

- Service delivery report forms
- Disease (Morbidity & Mortality) report form
- PHEM reports

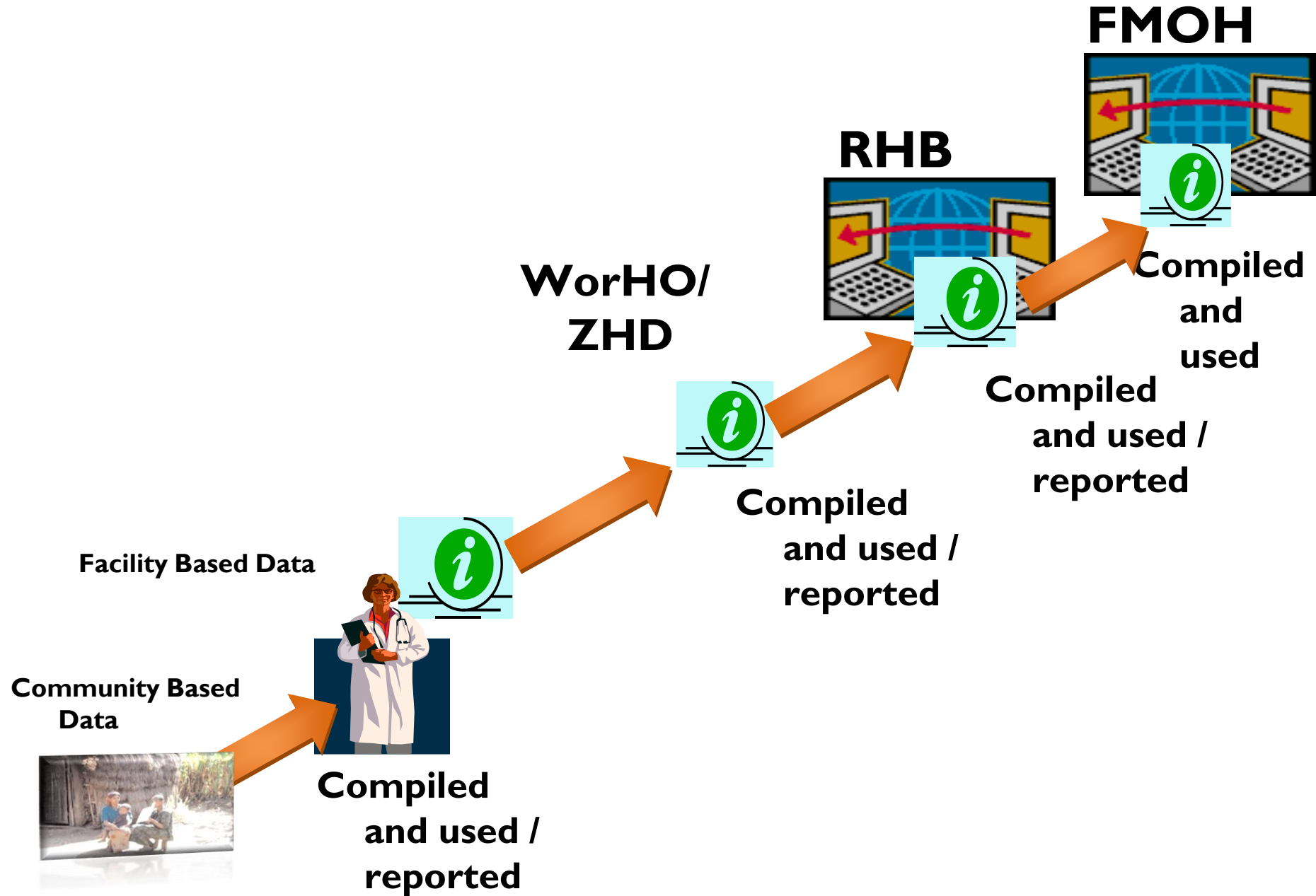
### By Health institution:

- Health post, Health center ,Hospital , clinics and WorHO/ZHD/RHB

### By reporting Period:

- Immediate/ Weekly report
- Monthly /Quarterly/annual administrative report

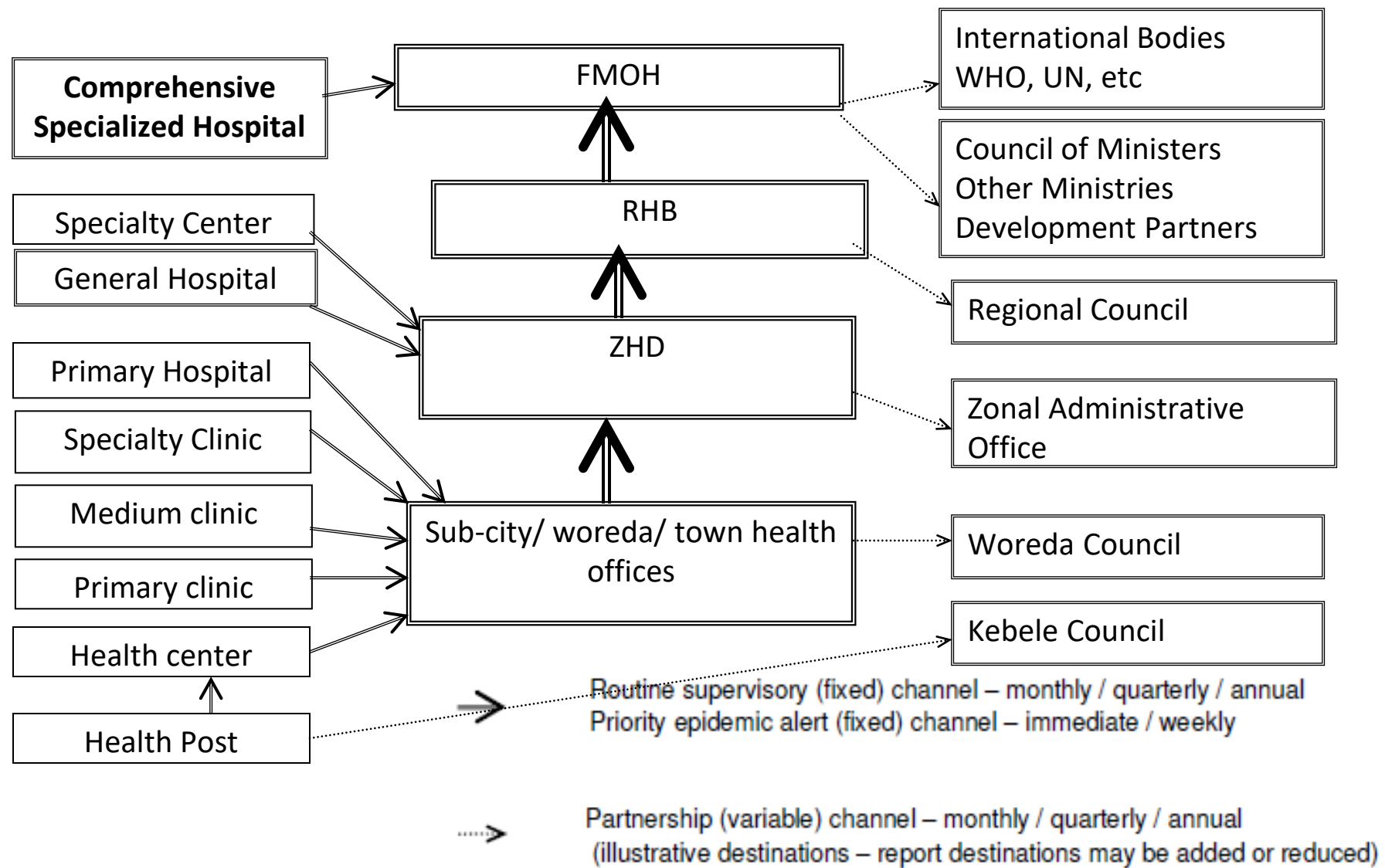
# Ethiopia- Health Information System-Reporting Flow



# Ethiopia- Health Information System-Reporting Flow



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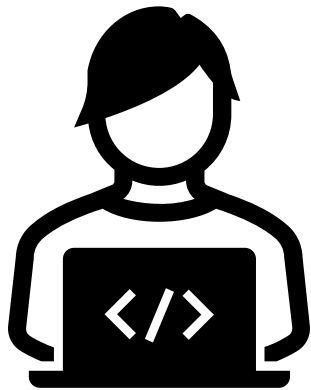


# Denominator of HPV

- Every year micro plan has been done for 14 years adolescent , we got data majorly from school
- Register from community where school enrollment is low
- We try to validate with CSA data
- Previous year performance data also considered
- Age trade off is also challenge



- limited human resources for HIS
- Inadequate functionality of PMTs at all levels
- Poor documentation



- Inadequate implementation of data quality assurance
- limited coverage of VPN-Health Net, LAN, electricity, and computers



- Limited functionality of an electronic medical record systems



# Planning and strengthen health information

- Triangulation
- Digitalization
- Validation exercise
- Strengthen PMT
- Improve data use culture at all level
- Capacity building
- Increasing the HIT professionals

**Thank You!**